improved chulha, small hydro power, solar photovoltaics, integrated rural energy programme, energy parks etc. to promote non-conventional energy sources during the last three years in the State of Arunachal Pradesh. The details of achievements made under various programmes/schemes during last three years *i.e.* 1998-1999 to 2000-2001, in the State of Arunachal Pradesh, are given in the Statement.

Statement

The details of achievements made under various programmes during last three years i.e. 1998-1999 to 2000-2001, in the State of Arunachal Pradesh

S. No.	Name of Scheme/Programme	Achievements made during last 3 years (1998-1999 to 2000-2001)
1.	Biogas Plants (Nos.)	731
2.	Improved Chulhas (Nos.)	1000
3.	Small Hydro Power (MW)	10.20*
4.	Solar Photovoltaics	
	i. Solar Lanterns (Nos)	2000
	ii. Home Lighting Systems (Nos.)	393
5.	IREP (Blocks in Nos.)	10
6.	Energy Parks (Nos.)	4

*Under implementation; MW=Mega Watt

Potential of hydro-electric projects

†3120. SHRI P.K. MAHESHWARI: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether there are 2162 such potential places where small hydro-electric projects up to 25 MW may be set up;

(b) if so, the details of the additional electricity to be derived from these projects in different States and the project-wise expenditure proposed to be incurred by the Government on these projects;

(c) whether Government have taken any step to implement these projects; and

(d) if so, the details thereof?

†Original notice of the question was received in Hindi.

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) 4096 small hydro potential sites (up to 25 MW) aggregating about 10,000 MW have been identified in the country based on information received from the States and studies conducted by Central Electricity Authority (CEA) and Alternate Hydro Energy Centre, Roorkee.

(b) The number of potential sites State-wise and their estimated potential are given in the enclosed Statement (*See* below). Development of these potential sites depends on their techno-economic viability and is done in a phased manner by the States based on availability of funds. Average estimated cost of setting up small hydro power project is between Rs. 4 crores to 5 crores per MW depending upon location and type of the project.

(c) and (d) Ministry of Non-conventional Energy Sources is encouraging State Governments as well as the private sector to set up SHP projects. The Ministry is implementing a number of incentive schems for setting up of small hydro power projects including support for Detailed Survey and Investigation, Detailed Project Report Preparation, capital subsidy for Government sector projects and interest subsidy for commercial projects.

Statement

State-wise Details of identified Small Hydel Sites up to 25 MW capacity

Name of State	Identified Number of Sites	Total Capacity in MW
1	2	3
Haryana	22	30.05
Himachal Pradesh	323	1624.78
Jammu and Kashmir	201	1207.27
Punjab	78	65.26
Rajasthan	49	27.26
Uttar Pradesh and Uttaranchal	445	1472.93
Gujarat	290	156.83
Madhya Pradesh and Chhattisgarh	125	410.13
Maharashtra	234	599.47

1	2	3
Andhra Pradesh	286	254.63
Karnataka	230	652.61
Kerala	198	466.85
Tamil Nadu	147	338.92
Bihar and Jharkhand	171	367.97
Orissa	161	156.76
Sikkim	68	202.75
West Bengal	145	182.62
Arunachal Pradesh	492	1059.03
Assam	46	118.00
Manipur	96	105.63
Meghalaya	98	181.50
Mizoram	88	190.32
Nagaland	86	181.39
Tripura	8	9.85
A&N Island	6	6.40
Goa	3	2.60
TOTAL	4,096	10,071.81

Biogas Plants in Andhra Pradesh

3121. DR. DASARI NARAYANA RAO: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the total number of biogas plants which are functional in Andhra Pradesh as on date, district-wise;

(b) whether Government have reviewed the function of biogas plants in the States;

(c) if so, the findings thereof; and

(d) the steps being taken to popularize biogas plants in the State?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) As the number of biogas plants functioning on a given date depend upon several factors including interest of plant-owners to operate and maintain the plants